

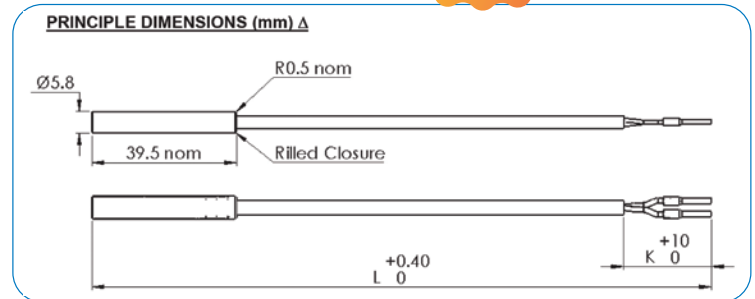


Harsh Environment Temperature Sensor - JS8746

Overview

Ensuring a temperature-controlled environment for transportation of goods by land, sea or air is of the utmost importance to guarantee that the merchandise does not deteriorate during shipment due to temperature. In many cases, such as medical products, the shipping companies have a statutory duty to demonstrate that the product has been kept within strict temperature limits. Failure to do so can lead to the write-off and destruction of large quantities of expensive product.

The marine environment is especially complex and susceptible to change; container ships are subject to the extremes of arctic and tropical weather systems. Sea water is highly corrosive, containing large quantities of chlorides and sulfates. Ozone, ultraviolet sunlight (UV) and cleaning detergents provide additional degradation potential to exposed materials.



Highly Accelerated Corrosion Test (HACT)

Highly Accelerated Corrosion Test (HACT) was developed by Delta (DK) and has been accepted throughout the marine shipping market to demonstrate long-term performance of electrical equipment exposed to this environment. Each day of HACT testing equates to 1 year of marine environment exposure. The JS8746 has exceeded 14 days of testing, substantially outperforming competitor products.

JS8746 Features

- HACT Exposure: +14 days
- Temp Tolerance Rating: ± 0.2 and 0.15 °C
- Temp Rating: -40 to 120 °C
- Environmental Protection: IP68
- Resistant to: salt solutions, Ozone, UV and a variety of marine environment cleaning detergents
- Inert to trace levels of airborne R134a refrigerant



Part Number	L / mm	K / mm	Tolerance 0-70°C / \pm °C
JS8746A-0.20	1000	50	0.20
JS8746B-0.20	2000	50	0.20
JS8746C-0.20	3000	50	0.20
JS8746A-0.15	1000	50	0.15
JS8746B-0.15	2000	50	0.15
JS8746C-0.15	3000	50	0.15

The JS8746 Harsh Environment Temperature Sensor has been designed to address all aspects of temperature measurement for HVAC control systems in the container-ship market. Employing materials and build standards that enhance the sensor's ability to withstand water ingress and degradation by the marine environment, the sensor meets statutory requirements for temperature measurement and performance expectations.